AMENDMENTS TO THE DRAWINGS:

The attached sheet of drawings includes changes to Figures 5 and 6 as suggested by the Examiner. No new matter has been added..

REMARKS

Applicant has rewritten claims 1-7 and 12-13 to overcome the rejection under 35 U.S.C. 112. Claims 7-11 are presented in their original form as being dependent on claim 5 and are now believed to be in proper form in view of the amendments to claims 1-6. Applicant is also submitting herewith replacement drawings for figures 5 and 6 in an effort to overcome the Examiner's objections to the drawings.

The following comments refer to the numbered paragraphs in the specified claims and are in response to the Examiner's comments in the aforementioned Office Action.

Concerning claim 1(paragraph 3), "n groups selected values" indicates that n groups of gray levels (P) and luminance values (Q) selected from N groups of gray levels (P) and luminance values (Q) mentioned in the claim 1(2). Besides, "an interval" indicates a range covering the n groups of gray levels (P) and luminance values (Q).

Concerning claim 1(paragraph 4), "the gray levels (P) and the luminance (Q)" in an interval indicates the n groups of gray levels (P) and luminance values (Q). Besides, please refer to the description from Line15-23, Page6 in the specification that concerns the way to obtain a fitting function.

Concerning claim 1(paragraph 5), the fitting functions in claim 1(4) and claim 1(5) have the same definition.

Concerning claim 1(paragraph 6), "each color light" indicates the light included in the light source. Besides, "Y" represents luminance value rather than "the gamma function". Moreover, the gamma parameters in claim 1(6) and in claim 1(4) have the same definitions.

Concerning claim 1(paragraph 7), "the image gray signals" indicates the normalized original gray data of image. Besides, "Yt" represents "target luminance value", "Y" represents the luminance value obtained after the original gray data of image is normalized, "Xt" represents "target gray level", and "X" represents the gray level obtained after the original gray data of image is normalized.

Concerning claim 1(paragraph 7)(a), "Y" represents luminance value rather than the gamma function while "Yt" represents target luminance value rather than predetermined target curve function.

Concerning claim 1(paragraph 7)(d), please refer to the description from Line 7-10, Page 9 in the specification. As mentioned in the description, the transitional gray level "Xn" is obtained by using a line with slope $-\gamma'$ by step 3. Then the transitional luminance value "Yn" is obtained by consulting the lookup table. The lookup table can be used here because the relationship between "Xn" and the "Yn" is the same of that between the gray levels "X" and the luminance values "Y" in the lookup table. In other words, "Xn" is one of the gray levels while "Yn" is one of the luminance values.

Concerning claim 1(paragraph 7)(d), please refer to the description in the beginning of claim (7):" the image gray signals of gamma curve function $Y= X^{\gamma}$ being corresponded to a predetermined target curve function $Yt = Xt^{\gamma'}$, letting $Xt =X$ and obtaining a modified gray signals by iteration method" first. According to the description, the "the modified gray signals" in claim 1(7)(d) is obtained by iteration method.

Concerning claim 3, Pmax is the maximum of the gray levels in the range of two neighboring intervals while Qmax is the maximum of the luminance values in the range of two neighboring intervals. A gamma parameter can be obtained by taking the Pmax and Qmax into the equation in claim 3.

Concerning claim 4, "Q" represents luminance value rather than the equation. Besides,

the fitting function that is defined as a polynomial function of the gamma parameter in claim 4 doesn't contradict the description about the fitting function in claim 1. In addition, the polynomial function of the gamma parameter described in claim 4 indeed includes "γ". Please refer to Line18-19, Page 9 in the specification, wherein the example that "γ4" is determined by taking gray level 255 and its luminance into gamma parameter function (a) and function (a) is the equation for obtaining "γ", that is, gamma parameter. Accordingly, there is "γ" in the equation mentioned in claim 4 in fact. Besides, "γm" represents different gamma parameter. In the equation mentioned in claim 4, m ranges from 2 to n, that is, m=2,3…n and "n-1" is also included within the range. "a_{n-1}" indicates that when the m value of the "a_m" is equal to "n-1" and "a_m" is included in the equation as described in claim 4.

Therefore, it is Applicant's contention that claims 1-13 as amended are now in allowable form and should be allowed.

Prompt favorable action is requested.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 07-1337 and please credit any excess fees to such deposit account.

Respectfully submitted,

LOWE HAUPTMAN HAM & BERNER, LLP

DAVID E. DOUGHERTY
Registration No. 19,576
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111
(703) 518-5499 Facsimile
Date: November 26, 2007
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